CROSSED CONTACTS OF SUBSCRIBER SENDER LINK GP RELAY
NO. 1 CROSSBAR OFFICES

1. GENERAL

1.01 This section covers methods to be followed in connection with troubles due to crossed contacts on the GP relay of the subscriber sender link.

2. INDICATIONS OF TROUBLE CONDITION

2.01 Subscriber sender link alarms.

2.02 Originating trouble indicator records.

3. REACTIONS DUE TO TROUBLE

3.01 This trouble reduces the number of district junctors available for service.

4. IMMEDIATE PROCEDURE TO FOLLOW

4.01 Transfer to the emergency subscriber sender link controller.

5. ANALYSIS OF TROUBLE

5.01 When the chain contacts of the GP relay are closed and several line link frames are attempting to select a district on the same frame, double connections may result which may cause the marker to time out and indicate an attempt to operate two select magnets. At the same time the sender link is held and sender link alarms will be received.

6. SUGGESTED PROCEDURE FOR LOCATING AND CLEARING TROUBLE

6.01 Since the use of the emergency controller eliminates the trouble, make a check of the contacts by means of a test receiver.

7. TROUBLE CONDITIONS CAUSING REACTIONS MAY BE LISTED BELOW

7.01 Contacts 4, 5 and 6 top of GP relay crossed.

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ORIGINATING TROUBLE INDICATOR RECORD
CROSSBAR OFFICES

OFFICE _____

DATE _____ SHEET NO. _____

NO.	TI	CT	DT	DR	GO	G 100	DL-GO	DL-G100	CF	CN	SN	OF	TL	KEL	KOL	KER	KOR	G	GT1	GT3	GS	DF	SW	M	JC	P	CHL	CHR	Z	ZCK	ZO	ZL	ZK	PS1	NC1	OT1	TC1	TCK	TP1	RP1	TPK	ZR	A	B	C	D	F	AR
1	✓			0					3	0	9	4	10		1			2				5	4,5	0	9	2	1								1								2	4	4	2	10	
2	✓			1					0	3	6	2	0			6		8				5	2,6		13	6		4							1					1			2	4	3	2	5	
3	✓			2					2	1	4	0	0		8			4				5	0,1		13	3	5							1					1			2	4	4	2	0	
4	✓			1								0	0	1				3				5	3,6		7	0	0							1					1								
5	✓			2					3	3	1	1	10			2		5				5	4,8		3	0		2						1					1			2	4	3	1	5	
6																																																
7																																																
8																																																
9																																																
10																																																

Column A - Trouble indication.
Columns B,C,D,E - Any sender, trunk or trunk group.
Column F - Same DF lamp with XSM1 lamp in column O indicates two district junctors are being connected together.
Columns G,H,I,J,K,L,M,N,P - Have no significance.

A	B	C	D	E	F	G	H	I

NO.	OF	TP	EA	LA	SGR	CKG	K4	K5	SPE	SPO	NSE	NSO	DK	AK	TKE	TK	SR	RL	MS	CK	BK	CHE	A	C	S	SL	B	MR	S1K	MRL	ZS	Z	OT	TC	TP2	NM	RO	TB5	CRL	DT3	MR1	TRL	EC	X	SDT	OB	SD	SD1	OG	SO	CR	CL	TW	TIME
1						✓	✓	✓			✓	✓	✓	✓		✓	✓		✓	✓	✓																							✓	XSM1			✓	✓		✓	3,4	1		8:55
2						✓	✓	✓			✓	✓	✓	✓		✓	✓		✓	✓	✓																							✓	XSM1			✓	✓		✓	3,4	1		9:10
3						✓	✓	✓			✓	✓	✓	✓		✓	✓		✓	✓	✓																							✓	XSM1			✓	✓		✓	3,4	1		9:13
4							✓	✓			✓	✓	✓	✓			✓		✓	✓	✓																							✓	XSM1										9:17
5						✓	✓	✓			✓	✓	✓	✓		✓	✓		✓	✓	✓																							✓	XSM1			✓	✓		✓	3,4	1		9:22
6																																																							
7																																																							
8																																																							
9																																																							
10																																																							

Analysis of Indication: XSM1 lamp display on same district junctor frame indicates district junctors are being double connected. Since the SW lamps are not repeaters the trouble is in the sender link frame.

Immediate Procedure to Follow: Make district junctor frame busy. Transfer to the emergency sender link controller to see if trouble is eliminated.

Procedure for Locating and Clearing Trouble: Determine if possible where double connections are occurring. If use of emergency controller eliminates alarms and displays, check for crosses.

J	K	L	M	N	O	P